Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1623paz
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS	3	Feb 06	Engineering Information Encompass files have new names
NEWS	4	Feb 16	TOXLINE no longer being updated
NEWS	5	Apr 23	Search Derwent WPINDEX by chemical structure
NEWS	6	Apr 23	PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS	7	May 07	DGENE Reload
NEWS	8	Jun 20	Published patent applications (A1) are now in USPATFULL
NEWS	9	JUL 13	New SDI alert frequency now available in Derwent's DWPI and DPCI

NEWS EXPRESS	July 11 CURRENT WINDOWS VERSION IS V6.0b, CURRENT MACINTOSH VERSION IS V5.0C (ENG) AND V5.0JB (JP), AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2001
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:18:15 ON 07 AUG 2001

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'CAPLUS' ENTERED AT 10:18:30 ON 07 AUG 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1947 - 7 Aug 2001 VOL 135 ISS 7
FILE LAST UPDATED: 6 Aug 2001 (20010806/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAplus now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.


```
=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.33       0.48

FILE 'REGISTRY' ENTERED AT 10:18:55 ON 07 AUG 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES:    6 AUG 2001  HIGHEST RN 350576-96-4
DICTIONARY FILE UPDATES:   6 AUG 2001  HIGHEST RN 350576-96-4

TSCA INFORMATION NOW CURRENT THROUGH January 11, 2001
```

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

```
=> e 3-isochromanone/cn
E1            1     3-ISOCHROMANOL, 3-(O-(HYDROXYMETHYL)BENZYL)-/CN
E2            1     3-ISOCHROMANOL, 3-BENZYL-/CN
E3            1 --> 3-ISOCHROMANONE/CN
E4            1     3-ISOCHROMANONE, 1,1,4,4-TETRAMETHYL-/CN
E5            1     3-ISOCHROMANONE, 1,1-BIS(P-HYDROXYPHENYL)-/CN
E6            1     3-ISOCHROMANONE, 1,1-BIS(P-HYDROXYPHENYL)-, POLYMER WITH
DIC
```

```
                    HLORODIOXOCHROMIUM/CN
E7            1     3-ISOCHROMANONE, 1,4-DIPHENYL-/CN
E8            1     3-ISOCHROMANONE,
1-(3,4-DIMETHOXYBENZYLIDENE)-6,7-DIMETHOXY-
                    /CN
E9            1     3-ISOCHROMANONE, 1-(6-HYDROXYHEPTYL)-6,7-DIMETHOXY-/CN
E10           1     3-ISOCHROMANONE, 1-(6-HYDROXYHEPTYL)-6,8-DIMETHOXY-/CN
E11           1     3-ISOCHROMANONE,
1-(DICHLOROMETHYL)-4-(3,4-DIMETHOXYPHENYL)-
                    6,7-DIMETHOXY-/CN
E12           1     3-ISOCHROMANONE, 1-FLUOREN-2-YL-6,7-DIMETHOXY-/CN

=> e3
L1            1 3-ISOCHROMANONE/CN

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       4.11       4.59

FILE 'CAPLUS' ENTERED AT 10:19:41 ON 07 AUG 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1947 - 7 Aug 2001  VOL 135 ISS 7
FILE LAST UPDATED: 6 Aug 2001  (20010806/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

  This file supports REGlstRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.

CAplus now provides online access to patents and literature covered
in CA from 1947 to the present.  On April 22, 2001, bibliographic
information and abstracts were added for over 2.2 million references
published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field.
Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of
the American Chemical Society and is provided to assist you in
searching databases on STN.  Any dissemination, distribution, copying,
or storing of this information, without the prior written consent of
CAS, is strictly prohibited.

=> l1
L2          116 L1

=> palladium or Pd
```

```
        110627 PALLADIUM
            30 PALLADIUMS
        110630 PALLADIUM
                 (PALLADIUM OR PALLADIUMS)
        143196 PD
          1551 PDS
        144480 PD
                 (PD OR PDS)
L3      182709 PALLADIUM OR PD

=> l2 and l3
L4          13 L2 AND L3

=> amin
           333 AMIN
            19 AMINS
L5          352 AMIN
                 (AMIN OR AMINS)

=> amine
        206910 AMINE
        191129 AMINES
L6      313468 AMINE
                 (AMINE OR AMINES)

=> l6 and l4
L7           3 L6 AND L4

=> d l7 ti fbib abs

L7   ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2001 ACS
TI   Process for preparing 3-isochromanone
AN   2000:210147  CAPLUS
DN   132:251074
TI   Process for preparing 3-isochromanone
IN   Jones, Raymond Vincent Heavon; Whitton, Alan John; White, Jennifer Ann;
     Ritchie, David John; Fieldhouse, Robin; MacCormick, Kirstin; Nisbet,
Logan
     Thomson; Evans, Paul Richard; Bennie, Colin John
PA   Zeneca Limited, UK
SO   PCT Int. Appl., 22 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2000017186      A1   20000330       WO 1999-GB2783   19990823
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
             ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
             CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                            GB 1998-20465  A 19980918
                                            GB 1999-13325  A 19990608
```

AU 9954378	A1	20000410	AU 1999-54378	19990823
			GB 1998-20465 A	19980918
			GB 1999-13325 A	19990608
			WO 1999-GB2783 W	19990823
EP 1114042	A1	20010711	EP 1999-940396	19990823
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
			GB 1998-20465 A	19980918
			GB 1999-13325 A	19990608
			WO 1999-GB2783 W	19990823

OS CASREACT 132:251074; MARPAT 132:251074

AB A process for the prepn. of 3-isochromanone which comprises contacting an o-xylene-.alpha.,.alpha.'-dihalide with carbon monoxide in the presence of a catalyst and a hindered **amine** base in a liq. medium comprising water and a tertiary alc. is described. E.g., o-xylene-.alpha.,.alpha.'-dichloride was treated with CO in presence of (Me2CH)2NEt, H2PdCl4 catalyst, tert-amyl alc., water, and PPh3 to give 83.7% 3-isochromanone.

RE.CNT 4

RE

(1) Sagami; WO 9700850 A CAPLUS

(2) Sagami Chemical Res; EP 0834497 A 1998 CAPLUS

(3) Zeneca; WO 9856784 A 1998 CAPLUS

(4) Zeneca; WO 9910335 A 1999 CAPLUS

=> d l7 2-3 ti fbib abs

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS

TI Preparation of 3-isochromanone

AN 2000:198032 CAPLUS

DN 132:222448

TI Preparation of 3-isochromanone

IN Nanami, Hideki; Takao, Yoshihiro; Tanizawa, Naoto; Kimura, Yoshikazu

PA Ihara Nitsukei Kagaku Kogyo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000086650	A2	20000328	JP 1998-270576	19980908

OS CASREACT 132:222448; MARPAT 132:222448

AB Title compd. is prepd. by reaction of o-XCH2C6H4CH2X (X = halo) with CO and H2O in the presence of catalysts and sterically hindering tertiary **amines** in org. solvents. .alpha.,.alpha.'-Dichloro-o-xylene was reacted with CO in the presence of **Pd**(PPh3)2Cl2, PPh3, and diisopropylethylamine in H2O-PhMe mixt. at 50.degree. for 4.5 h to give 93.6% 3-isochromanone. The PhMe soln. contg. **Pd**(PPh3)2Cl2 and diisopropylethylamine was reused in the next reaction.

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS

TI Process for preparing 3-isochromanone

AN 1999:166607 CAPLUS

DN 130:196576

TI Process for preparing 3-isochromanone

IN Jones, Raymond Vincent Heavon; Ritchie, David John; McCann, Hannah Sallie Robertson; Fieldhouse, Robin; MacCormick, Kirstin; White, Jennifer Ann

PA Zeneca Limited, UK
SO PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9910335	A1	19990304	WO 1998-GB2250	19980728
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
	AU 9885493	A1	19990316	AU 1998-85493	19980728
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728
	EP 1015442	A1	20000705	EP 1998-936522	19980728
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728
	BR 9811603	A	20000905	BR 1998-11603	19980728
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728
	ZA 9807438	A	19990406	ZA 1998-7438	19980818
				GB 1997-18010	A 19970826
	US 6207840	B1	20010327	US 2000-463509	20000124
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728

PATENT FAMILY INFORMATION:
FAN 1999:7990

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9856784	A1	19981217	WO 1998-GB1581	19980529
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
				GB 1997-12166	A 19970611
				GB 1997-18010	A 19970826
	AU 9876675	A1	19981230	AU 1998-76675	19980529
				GB 1997-12166	A 19970611
				GB 1997-18010	A 19970826
				WO 1998-GB1581	W 19980529
	EP 1000052	A1	20000517	EP 1998-924482	19980529

```
        R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI
                                              GB 1997-12166  A 19970611
                                              GB 1997-18010  A 19970826
                                              WO 1998-GB1581 W 19980529
     BR 9809833        A    20000620         BR 1998-9833     19980529
                                              GB 1997-12166  A 19970611
                                              GB 1997-18010  A 19970826
                                              WO 1998-GB1581 W 19980529
     ZA 9805034        A    19990118         ZA 1998-5034     19980610
                                              GB 1997-12166  A 19970611
     ZA 9807438        A    19990406         ZA 1998-7438     19980818
                                              GB 1997-18010  A 19970826
     US 6184392        B1   20010206         US 1999-445491   19991208
                                              GB 1997-12166  A 19970611
                                              GB 1997-18010  A 19970826
                                              WO 1998-GB1581 W 19980529
OS   CASREACT 130:196576; MARPAT 130:196576
AB   3-Isochromanone is prepd. by contacting an o-xylene-.alpha.,.alpha.'-
     dihalide with carbon monoxide in a two-phase liq. medium, in which one
     phase is aq. and the other phase is water-immiscible, in the presence of
a
     catalyst and a hindered amine base.  E.g., CO was bubbled
     through a H2O/xylene mixt. contg. o-xylene-.alpha.,.alpha.'-dichloride,
     (Me2CH)2NEt, (Ph3P)2PdCl2, and Ph3P to give 91% 3-isochromanone.
RE.CNT  3
RE
(1) Anon; WO 9700850 A CAPLUS
(2) Iharanikkei Chemical Industry; EP 0834497 A 1998 CAPLUS
(3) Stauffer Chemical Co; EP 0222460 A 1987 CAPLUS


=> d his

     (FILE 'HOME' ENTERED AT 10:18:15 ON 07 AUG 2001)

     FILE 'CAPLUS' ENTERED AT 10:18:30 ON 07 AUG 2001

     FILE 'REGISTRY' ENTERED AT 10:18:55 ON 07 AUG 2001
                E 3-ISOCHROMANONE/CN
L1             1 E3

     FILE 'CAPLUS' ENTERED AT 10:19:41 ON 07 AUG 2001
L2           116 L1
L3        182709 PALLADIUM OR PD
L4            13 L2 AND L3
L5           352 AMIN
L6        313468 AMINE
L7             3 L6 AND L4

=> butanol
          40572 BUTANOL
            836 BUTANOLS
L8        40904 BUTANOL
                (BUTANOL OR BUTANOLS)

=> l8 and l4
L9             1 L8 AND L4
```

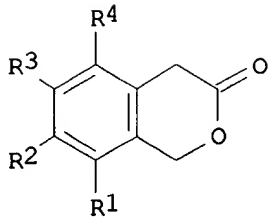
=> l9 not l7
L10 1 L9 NOT L7

=> d l10 ti fbib abs

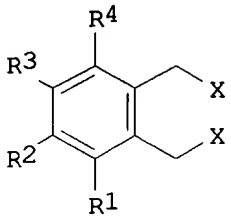
L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
TI Process, **palladium** catalysts and dipolar aprotic solvent systems for the preparation of isochroman-3-ones by the reaction of 1,2-bis(halomethyl)benzenes with alcohols and carbon monoxide
AN 2001:225291 CAPLUS
DN 134:252262
TI Process, **palladium** catalysts and dipolar aprotic solvent systems for the preparation of isochroman-3-ones by the reaction of 1,2-bis(halomethyl)benzenes with alcohols and carbon monoxide
IN Geissler, Holger; Pfirmann, Ralf
PA Clariant G.m.b.H., Germany
SO Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1086949	A2	20010328	EP 2000-119865	20000913
	EP 1086949	A3	20010425		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
				DE 1999-19945561A	19990923
	DE 19945561	A1	20010329	DE 1999-19945561	19990923
	JP 2001139570	A2	20010522	JP 2000-289949	20000925
				DE 1999-19945561A	19990923

OS MARPAT 134:252262
GI



I



II

AB Isochroman-3-ones (I; R1-R4 = H, F, CN, CF3, alkyl, alkoxy, aryl, aryloxy, heteroaryl) (e.g., isochroman-3-one) are prepd. in high yield and selectivity by the reaction of carbon monoxide with 1,2-bis(halomethyl)benzenes (II; X = Cl, Br, I) [e.g., 1,2-bis(chloromethyl)benzene] with alcs. (R5)(R6)(R7)COH (R5-R7 = alkyl, CO2H, H3CCOCH2, arylmethyl) (e.g., tert-**butanol**) in the presence of a **palladium** catalyst (e.g., **palladium** dichloride) at 20-200.degree./0.1-50 MPa in the presence of a dipolar aprotic solvent system and optionally in the presence of water.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	24.55	29.14
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.35	-2.35

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:24:17 ON 07 AUG 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1623paz

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:32:04 ON 07 AUG 2001
FILE 'CAPLUS' ENTERED AT 10:32:04 ON 07 AUG 2001
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	24.55	29.14

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.35	-2.35

=> d his

     (FILE 'HOME' ENTERED AT 10:18:15 ON 07 AUG 2001)

     FILE 'CAPLUS' ENTERED AT 10:18:30 ON 07 AUG 2001

     FILE 'REGISTRY' ENTERED AT 10:18:55 ON 07 AUG 2001
               E 3-ISOCHROMANONE/CN
L1   1 E3

     FILE 'CAPLUS' ENTERED AT 10:19:41 ON 07 AUG 2001
L2   116 L1
L3   182709 PALLADIUM OR PD
L4   13 L2 AND L3
L5   352 AMIN
L6   313468 AMINE
L7   3 L6 AND L4
L8   40904 BUTANOL
L9   1 L8 AND L4
L10   1 L9 NOT L7

=> l4 not l7
L11   10 L4 NOT L7

=> d l11 1-10 ti

L11 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI   Process, **palladium** catalysts and dipolar aprotic solvent systems
     for the preparation of isochroman-3-ones by the reaction of
     1,2-bis(halomethyl)benzenes with alcohols and carbon monoxide

L11 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI   Method for preparation of 3-isochromanone

L11 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI   Preparation of isochroman-3-ones

L11 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI   Catalytic preparation of 3-isochromanone from phthalan and carbon
monoxide

L11 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI   Preparation of 3-isochromanone by carbonylation o-xylylene dihalides.

L11 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Direct carbonylation of benzyl alcohol and its analogs catalyzed by **palladium** and HI in aqueous systems and mechanistic studies

L11 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI **Palladium**-catalyzed carbonylation of benzyl alcohol and its analogs promoted by HI in aqueous systems

L11 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI Process for producing 2-(halomethyl)phenylacetic acid esters

L11 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of pyrrolidineacetic acid derivatives as nervous system stimulants

L11 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI Synthesis of lactones by the **palladium**-catalyzed carbonylation of halo alcohols

=> d l11 5 ti fbib abs

L11 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of 3-isochromanone by carbonylation o-xylylene dihalides.
AN 1999:7990 CAPLUS
DN 130:52333
TI Preparation of 3-isochromanone by carbonylation o-xylylene dihalides.
IN Jones, Raymond Vincent Heavon; McCann, Hannah Sallie Robertson
PA Zeneca Limited, UK
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9856784	A1	19981217	WO 1998-GB1581	19980529
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
				GB 1997-12166	A 19970611
				GB 1997-18010	A 19970826
	AU 9876675	A1	19981230	AU 1998-76675	19980529
				GB 1997-12166	A 19970611
				GB 1997-18010	A 19970826
				WO 1998-GB1581	W 19980529
	EP 1000052	A1	20000517	EP 1998-924482	19980529
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
				GB 1997-12166	A 19970611
				GB 1997-18010	A 19970826
				WO 1998-GB1581	W 19980529
	BR 9809833	A	20000620	BR 1998-9833	19980529
				GB 1997-12166	A 19970611
				GB 1997-18010	A 19970826

				WO 1998-GB1581 W 19980529
	ZA 9805034	A	19990118	ZA 1998-5034 19980610
				GB 1997-12166 A 19970611
	ZA 9807438	A	19990406	ZA 1998-7438 19980818
				GB 1997-18010 A 19970826
	US 6184392	B1	20010206	US 1999-445491 19991208
				GB 1997-12166 A 19970611
				GB 1997-18010 A 19970826
				WO 1998-GB1581 W 19980529

PATENT FAMILY INFORMATION:

FAN 1999:166607

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9910335	A1	19990304	WO 1998-GB2250	19980728
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
	AU 9885493	A1	19990316	AU 1998-85493	19980728
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728
	EP 1015442	A1	20000705	EP 1998-936522	19980728
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728
	BR 9811603	A	20000905	BR 1998-11603	19980728
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728
	ZA 9807438	A	19990406	ZA 1998-7438	19980818
				GB 1997-18010	A 19970826
	US 6207840	B1	20010327	US 2000-463509	20000124
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728

OS CASREACT 130:52333

AB 3-Isochromanone is prepd. by reacting an o-xylene-.alpha.,.alpha.'-dihalide with CO and H2O in the presence of a catalyst at pH 7-11. Thus, a mixt. of o-xylylene dichloride, K2CO3, Aliquat 336, and **Pd** on montmorillonite in PhMe at 70.degree. was bubbled with CO and treated portionwise with PPh3 followed by stirring for 13 h to give 54.8% 3-isochromanone.

RE.CNT 2

RE

(1) Anon; WO 9700850 A CAPLUS

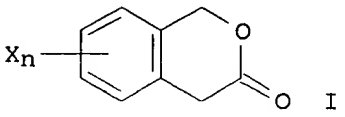
(2) Iharanikkei Chemical Industry; EP 0834497 A 1998 CAPLUS

=> d 111 2,3 ti fbib abs

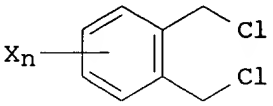
L11 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI Method for preparation of 3-isochromanone
AN 2000:388907 CAPLUS
DN 133:17382
TI Method for preparation of 3-isochromanone
IN Hirai, Kenji; Uchida, Atsushi; Nanami, Hideki; Tanizawa, Naohito
PA Sagami Chemical Research Center, Japan; Ihara Nitsukei Kagaku Kogyo K. K.
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000159759	A2	20000613	JP 1998-336870	19981127

OS CASREACT 133:17382; MARPAT 133:17382
GI



I



II

AB The title compds. (I; X = H, halo, C1-4 alkyl, C1-4 alkoxy; n = 1-4; provided that when n is an integer of 2-4, X is same or different) are prepd. by reaction of .alpha.,.alpha.'-dichloroxylene derivs. (II; X, n = same as above) with CO and water in the presence of a catalyst system contg. a **palladium**-complex and hydrogen halide-capturing agent, wherein this hydroxycarbonylation is carried out in the presence of alkali metal bromide in a two-phase solvent system comprising arom. solvent and aq. solvent. This process provides a simple method for producing I which are useful as drugs and agrochems. Thus, a mixt. of 40 mL tert-Bu alc., 0.52 g Ph3P, 0.70 g dichlorobis(triphenylphosphine)**palladium**, 7.65 g Ca(OH)2, and 1.2 g KBr was vigorously stirred at 50.degree. under CO atm. for 15 min, followed by adding a soln. of 8.75 g .alpha.,.alpha.'-dichloroxylene in 30 mL, stirring the mixt. for 10 min under the same conditions, and the adding 10 mL H2O, and the stirring was continued for addnl. 4 h under the same conditions to give, after workup, 86.4% 3-isochromanone.

L11 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of isochroman-3-ones
AN 1999:659083 CAPLUS
DN 131:271812
TI Preparation of isochroman-3-ones
IN Geissler, Holger; Pfirmann, Ralf
PA Clariant G.m.b.H., Germany
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 949256	A1	19991013	EP 1999-105411	19990317

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

			DE 1998-19815323A 19980406
DE 19815323	A1	19991014	DE 1998-19815323 19980406
DE 19815323	C2	20000615	
JP 11343287	A2	19991214	JP 1999-98075 19990405
			DE 1998-19815323A 19980406
US 6075152	A	20000613	US 1999-286566 19990405
			DE 1998-19815323A 19980406

OS MARPAT 131:271812

AB Isochroman-3-ones of specified structure, useful as intermediates for herbicides and pharmaceuticals (no data), are prepd. by reaction of 1,2-bis(halomethyl)benzenes with CO and H2O at 20-200.degree./0.1-50 MPa in the presence of **Pd** catalysts, aprotic org. solvents and, optionally, ionic halide salts. Heating 1,2-(ClCH2)2C6H4 700, (Ph3P)2PdCl2 2.8 and Ph3P 2.4 g in 4 L DMF with CO at 130.degree./4 MPa while adding 400 mL 2.5:1.5 H2O/DMF over 2 h and holding for 1 h gave 281 g 97%-pure isochroman-3-one.

RE.CNT 2

RE

(1) Sagami Chem Res; WO 9700850 A CAPLUS

(2) Sagami Chem Res; EP 0834497 A 1998 CAPLUS

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	42.21	46.80

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.12	-4.12

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:37:13 ON 07 AUG 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:

* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *

SESSION RESUMED IN FILE 'CAPLUS' AT 10:48:00 ON 07 AUG 2001

FILE 'CAPLUS' ENTERED AT 10:48:00 ON 07 AUG 2001

COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	42.21	46.80

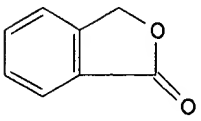
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.12	-4.12

=> d his

(FILE 'HOME' ENTERED AT 10:18:15 ON 07 AUG 2001)

```
     FILE 'CAPLUS' ENTERED AT 10:18:30 ON 07 AUG 2001

     FILE 'REGISTRY' ENTERED AT 10:18:55 ON 07 AUG 2001
                E 3-ISOCHROMANONE/CN
L1             1 E3

     FILE 'CAPLUS' ENTERED AT 10:19:41 ON 07 AUG 2001
L2           116 L1
L3        182709 PALLADIUM OR PD
L4            13 L2 AND L3
L5           352 AMIN
L6        313468 AMINE
L7             3 L6 AND L4
L8         40904 BUTANOL
L9             1 L8 AND L4
L10            1 L9 NOT L7
L11           10 L4 NOT L7

=> water
        1683594 WATER
         195655 WATERS
L12     1728686 WATER
                  (WATER OR WATERS)

=> tertiary alcohol
          79060 TERTIARY
              9 TERTIARIES
          79065 TERTIARY
                  (TERTIARY OR TERTIARIES)
         126406 ALCOHOL
         108282 ALCOHOLS
         219340 ALCOHOL
                  (ALCOHOL OR ALCOHOLS)
         413297 ALC
         143571 ALCS
         486999 ALC
                  (ALC OR ALCS)
         554130 ALCOHOL
                  (ALCOHOL OR ALC)
L13        3433 TERTIARY ALCOHOL
                  (TERTIARY(W)ALCOHOL)

=> l2 and l13
L14            2 L2 AND L13

=> d l14 1-2 ti

L14  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2001 ACS
TI   Process for preparing 3-isochromanone

L14  ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2001 ACS
TI   Synthesis of lactones by the palladium-catalyzed carbonylation of halo
     alcohols


=> d l14 2 ti fbib abs

L14  ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2001 ACS
```

TI Synthesis of lactones by the palladium-catalyzed carbonylation of halo alcohols
AN 1980:514102 CAPLUS
DN 93:114102
TI Synthesis of lactones by the palladium-catalyzed carbonylation of halo alcohols
AU Cowell, A.; Stille, J. K.
CS Dep. Chem., Colorado State Univ., Fort Collins, CO, 80523, USA
SO J. Am. Chem. Soc. (1980), 102(12), 4193-8
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA English
GI



I

AB The synthesis of lactones in high yields by the Pd-catalyzed carbonylation of halo alcs. can be effected under mild conditions (1-4 atm CO, 25-60.degree.) with a high turnover of Pd. Benzyl, allyl, aryl, and vinyl halides contg. primary, secondary, or **tertiary alc.** groups are readily converted to a variety of lactones, including phthalides and butenolides, by this simple procedure. Thus, o-IC6H4CH2OH gave 100% I.

```
=> alcohol
        126406 ALCOHOL
        108282 ALCOHOLS
        219340 ALCOHOL
                  (ALCOHOL OR ALCOHOLS)
        413297 ALC
        143571 ALCS
        486999 ALC
                  (ALC OR ALCS)
L15     554130 ALCOHOL
                  (ALCOHOL OR ALC)

=> l15 and l2
L16         20 L15 AND L2

=> l12 and l16
L17          5 L12 AND L16

=> d l17 1-5 ti

L17  ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2001 ACS
TI   Process, palladium catalysts and dipolar aprotic solvent systems for the
     preparation of isochroman-3-ones by the reaction of 1,2-
     bis(halomethyl)benzenes with alcohols and carbon monoxide

L17  ANSWER 2 OF 5  CAPLUS  COPYRIGHT 2001 ACS
```

TI Method for preparation of 3-isochromanone

L17 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Process for preparing 3-isochromanone

L17 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Process for producing 2-(halomethyl)phenylacetic acid esters

L17 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI 1,2-Di(lithiomethyl)benzene from phthalan: sequential introduction of two different electrophiles

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	55.11	59.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.70	-4.70

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:53:02 ON 07 AUG 2001